

1. **Addition Property of Inequality** – If  $a > b$ , then  $a + c > b + c$  and if  $a < b$ , then  $a + c < b + c$
2. **Subtraction Property of Inequality** – If  $a > b$ , then  $a - c > b - c$  and if  $a < b$ , then  $a - c < b - c$
3. **Multiplication Property of Inequality** – If  $a > b$  and  $c > 0$ , then  $ac > bc$ , and if  $a > b$  and  $c < 0$ , then  $ac < bc$
4. **Division Property of Inequality** – If  $a > b$  and  $c > 0$ , then  $a/c > b/c$ , and if  $a > b$  and  $c < 0$ , then  $a/c < b/c$
5.  $>$  - greater than (number line: open circle, shade to the right)
6.  $<$  - less than (number line: open circle, shade to the left)
7.  $\geq$  - greater than or equal to (number line: closed circle, shade to the right)
8.  $\leq$  - less than or equal to (number line: closed circle, shade to the left)